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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,092	05/10/2007	Paul Oreste Gioia	60838.000610 4356	
21967 ·	7590 01/24/2008 VILLIAMS LLP		EXAM	INER
INTELLECTU	AL PROPERTY DEPAR	TMENT	SOROUS	SH, ALI
1900 K STREE SUITE 1200	ET, N.W.		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006-1109			1616	
			MAIL DATE	DELIVERY MODE
•			01/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1. 2. r					
Office Action Summary		10/588,092 GI		Applicant(s)  GIOIA, PAUL ORESTE	
		Ali Soroush		616	4
		Period fo	The MAILING DATE of this communication app or Reply	pears on the cover si	leet with the corr
A SH WHIC - Exte after - If NC - Failu Anv	ORTENED STATUTORY PERIOD FOR REPL'CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period on the toreply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COM 36(a). In no event, however will apply and will expire SIX b. cause the application to be	MUNICATION.  The may a reply be timely to the second of th	filed mailing date of this co 35 U.S.C. § 133).	
Status					
1)⊠	Responsive to communication(s) filed on 28 July				
′=	,	action is non-final.	-1	oution on to the	mòrite is
3)[	Since this application is in condition for allowa closed in accordance with the practice under <i>E</i>				ments is
	closed in accordance with the practice under the	_x parte Quayre, 100	70 O.B. 11, 400 V	0.0.210.	
Disposit	ion of Claims				
4)⊠	Claim(s) 15-30 is/are pending in the application				
C	4a) Of the above claim(s) is/are withdra	wn from considerati	on.		
,	Claim(s) is/are allowed.				
•	Claim(s) <u>15-30</u> is/are rejected.  Claim(s) is/are objected to.				
	Claim(s) are subject to restriction and/o	or election requireme	ent.		
• •	tion Papers	or.			
	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc		ted to by the Exa	aminer.	
10)[]	Applicant may not request that any objection to the	drawing(s) be held in	abeyance. See 3	7 CFR 1.85(a):	
	Replacement drawing sheet(s) including the correct	tion is required if the o	drawing(s) is object	ted to. See 37 CF	R 1.121(d).
11)	The oath or declaration is objected to by the E	xaminer. Note the a	ttached Office Ad	ction or form PT	O-152.
Priority	under 35 U.S.C. § 119				
•	Acknowledgment is made of a claim for foreign	n priority under 35 U	.S.C. § 119(a)-(d	d) or (f).	•
	N⊠ All b) Some * c) None of:				
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the price			in this National	Stage ,
*	application from the International Burea See the attached detailed Office action for a list				
	See the attached detailed Office action for a no-	(0) (110 00) (1110 0 0 0			
Attachme		4) 🗀 In	terview Summary (P	TO-4.13)	
2) Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948)	Pa	aper No(s)/Mail Date otice of Informal Pate	·	
	rmation Disclosure Statement(s) (PTO/SB/08) ser No(s)/Mail Date	· ==	otice of informal Pate ther:	ant Application	
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# **DETAILED ACTION**

#### Status of the Claims

Claims 1-14 were cancelled and claims 15-30 have been newly added by a preliminary amendment filed on 07/28/2006.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15, 16, 19, 21, 22, 23, 26, 28, and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Aven (European Patent Application EP 1025757 A1, Published 08/09/2000).

Aven teaches "Crop protection emulsifiable concentrate containing defoaming agents" (See title). "Emulsifiable concentrate (EC) formulations conventionally contain an active ingredient, one or more surfactants which act as emulsifiers upon dilution of the EC with water, and a water immiscible solvent. Typical solvents for conventional EC formulations are aromatic hydrocarbons such as xylene, Shellsol A or Solvesso 200." (See page 2, paragraph 0001). "The relative amount of solid active ingredient soluble in EC increases by about 40 to 60% when 10 to 15% cosolvent is incorporated into the formulation." (See page 8, paragraph 0062). "It has surprisingly been found that the stable EC formulations containing at least one pesticidal crop protection active compound, at least one non polar organic solvent, optionally one polar aprotic

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cosolvent, an emulsifiable surfactant system, and at least one defoaming and foam breaking agent ... show clearly reduced foaming behavior upon dilution with water." (See page 3, paragraph 0015). "Preferably, the pesticide is selected from the group consisting of herbicides, insecticides, fungicides, bactericides, nematicides, algicides, molluscicides, virucides, compounds inducing resistance into plants, biological control agents such as viruses, bacteria, nematodes, fungi and other microorganisms, repellents of birds and animals, and plant growth regulators, or mixtures thereof." (See page 3, paragraph 0018). "Preferred herbicides are the compounds selected from the group consisting of:" pendimethalin and trifularin. (See page 4, paragraphs 0027 and 0028). "The suitable organic solvents in which the pesticide is dissolved are, as a rule, water-immiscible solvents. They are preferrably selected from the group consisting of aromatic hydrocarbons, aliphatic hydrocarbons, carboxylic acid esters, alcohols, dialkylene glycol mono- or dialkyl ethers and esters of plant oils or mixtures thereof." (See page 5, paragraph 0034). "The water-miscible aprotic solvents used as cosolvents are useful to increase the amount of active ingredient and adjuvant in the EC." (See page 3, paragraph 0038). "In another preferred embodiment of the invention the cosolvent consists essentially of one or more, preferably two or three dimethyl dicarboxylates of formula H<sub>3</sub>CO-CO-(CH<sub>2</sub>)<sub>n</sub>-CO-OCH<sub>3</sub> wherein n is 2, 3, or 4. A particularly preferred cosolvent is a mixture consisting of glutaric acid dimethyl ester, succinc acid dimethyl ester, and adipic acid dimethyl ester, most perferrred DBE ..." (See page 3, paragraph 0039 and 0040). "The emulsifying surfactant system enabling the EC to form an oil-in-water emulsion when the formulation is added to water is a

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mixture of two or more surfactants, at least one of which is an anionic surfactant (a) and at least one of which is a nonionic surfactant (b). (See page 5, paragraph 0041). "Most preferred anionic surfactants are the sodium, calcium or triethyl ammonium salts of dodecyl benzene sulfonic acid ..." (See page 6, paragraph 0042). "Examples of nonionic surfactants are nonylphenol polyethoxy ethanols, castor oil polygylcol ethers, polyadducts of ethylene oxide and propylene oxide, tributyl phenoxy polyethoxy ethanol, octyl phenoxy polyethoxy ethanol and tristyryiphenol ethoxylates ... Preferred are ethoxylated fatty acids such as castor or canola oil ethoxylates ... such as ... UKanil®2507(castor oil ethoxylate) ..." (See page 6, paragraphs 0043 and 0044). "Perferred embodiments of the invention are as follows: (i) An EC containing - 10 to 900 g/L, in particular, 100 to 850 g/L of at least one pesticidal crop protection active compound, - 50 to 800 g/L, in particular, 100 to 300 g/L of at least one non-polar organic solvent, -0 to 400 g/L, in particular, 0 to 250 g/L of at least one polar aprotic cosolvent, -20 to 500 g/L, in particular, 40 to 450 g/L of the emulsifying surfactant system, and -0.1 to 20 g/L, in particular 0.2 to 10 g/L of at least one defoaming or foam breaking agent ..." (See page 7, paragraph 0058). In preferred example an EC formulation is prepared containing: 240 g/L Pendimethalin, 50 g/L Phenylsulfonat CA100, 50 g/L Ukanil 2507, 264 g/L Synperonic 91-6, 198 g/L DBE, 1 g/L Fluowet PP, and to 1L Agsol EX12. (See page 14, example 10). Phenylsulfant CA 100 is a mixture of calcium salt of branched dodecyl benzene sulfonate, Genopol X-060, and Solvesso 200. (See page 9, paragraph 0069). For the foregoing reasons the instant emulsifiable concentrate is anticipated.

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# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Applicant Claims
- 2. Determining the scope and contents of the prior art.
- 3. Ascertaining the differences between the prior art and the claims at issue; and resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 1. Claims 20, 24, 25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aven (European Patent Application EP 1025757 A1, Published 08/09/2000).

# Applicant Claims

Applicant claims an emulsifiable concentrate comprising an active ingredient being a dinitroaniline compound, emulsifier or emulsifier mixture, a solvent, and a cosolvent having the following formula  $R_1O-CO-(CH_2)_n-CO-OR_2$ .

Determination of the Scope and Content of the Prior Art (MPEP §2141.01)

The teachings of Aven is disclosed above.

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# Ascertainment of the Difference Between Scope the Prior Art and the Claims (MPEP §2141.012)

Aven does not anticipate the instant concentrations (claim 20) of the emulsifiable concentrate. Aven also does not anticipate the instant non-ionic surfactants ethylene oxide/propylene oxide block polymer and/or ethoxylated and/or propoxylated di- or tri-styrylphenols. However, Aven does make such concentrations and non-ionic surfactants obvious.

# Finding of Prima Facie Obviousness Rational and Motivation (MPEP §2142-2143)

It would have been obvious to one of ordinary skill in the art to substitute polyadducts of ethylene oxide and propylene oxide and/or tristyryiphenol ethoxylates non-ionic surfactants for UKanil®2507(castor oil ethoxylate) in example 10 as taught by Aven. One would have been motivated to do so because Aven teaches these to be obvious variants of one another. With regard to the instantly claimed concentrations of active ingredient and diester co-solvent would have been obvious because Aven teaches 100 to 850 g/L of at least one pesticidal crop protection active compound which makes the instant active ingredient concentration obvious and teaches 0 to 250 g/L of at least one polar aprotic cosolvent which makes the instant co-solvent concentration obvious. One would be motivated to adjust the concentration of the active ingredient and cosolvent through routine experimentation for optimization of the emuslifiable concentrate. With regard to the amount of water added to the EC one would be

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motivated to adjust the amount of water through routine experimentation for optimization of the emuslifiable concentrate. Therefore, the instant emulsifiable concentrate would have been obvious to one of ordinary skill in the art at the time of the instant invention.

2. Claims 17, 18 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aven (European Patent Application EP 1025757 A1, Published 08/09/2000) in view of Hei et al. (US Patent 6593283 B2, Published 07/15/2003) as evidenced by Sealed Air (MSDS Instapak Port Cleaner, Rev. 006, 03/1005).

# **Applicant Claims**

Applicant claims an emulsifiable concentrate comprising an active ingredient being a dinitroaniline compound, emulsifier or emulsifier mixture, a solvent, and a cosolvent having the following formula  $R_1O-CO-(CH_2)_n-CO-OR_2$ .

Determination of the Scope and Content of the Prior Art (MPEP §2141.01)

The teachings of Aven is disclosed above.

# Ascertainment of the Difference Between Scope the Prior Art and the Claims (MPEP §2141.012)

Aven does not teach the co-solvent being a diisobutyl adipate or a mixture of diisobutyl adipate, diisobutyl glutarate, and diisobutyl succinate. This deficiecy is cured by the teachings of Hei et al.

Hei et al. teaches an antimicrobial composition comrprising a diluting solvent (water), an antimicrobially-active solvent, an optional cosolvent, surfactant, or additional

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antimicrobial surfactant. (See abstract). The perferred solvents include dibasic esters such as DBE and DBE-IB. (See column 7, Lines 1-27). The composition is suitable for application to growing or harvested plant material including leaves, stems, tubers, roots, seeds, and the like. (See column 12, Lines 13-15).

Sealed Air teaches that DBE-IB is composition comprising 55-70% Diisobutyl glutarate, 20-30% Diisobutyl succinate, and 10-20% Diisobutyl adipate. (See page 1, Section 2).

# Finding of Prima Facie Obviousness Rational and Motivation (MPEP §2142-2143)

It would have been obvious to one of ordinary skill in the art to combine the teachings of Aven with Hei et al. One would have been motivated to do so because Hei et al. teaches that a composition useful for plant protection wherein the solvents DBE and DBE-IB are suitable alternatives for each other. Therefore, the instant emulsifiable concentrate would have been obvious to one of ordinary skill in the art at the time of the instant invention.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Soroush whose telephone number is (571) 272-9925. The examiner can normally be reached on Monday through Thursday 8:30am to 5:00pm E.S.T.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Johann Richter can be reached on (571) 272-0646. The fax phone number For the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ali Soroush Patent Examiner Art Unit: 1616

> Johann R. Richter Supervisory Patent Examiner Technology Center 1600

**Sealed Air** 

Port Cleaner Page 1 of 3 Rev. 006, March 2005

Lindenhoutseweg 45, 6545 AH Nijmegen, The Netherlands, Tel. +31 (0)24 3710111

# IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Trade name

1.

Instapak® Port Cleaner

Use of preparation

Pressurized cleaning solvent for use in Instapak® foam dispensing

equipment

Company

Sealed Air Limited, Telford Way, Kettering, Northants NN16 8UN

England, Telephone: 01536 315700, Fax: 01536 410576

Emergency tel. no.

01536 315734

2.

# COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Dijsobutyl DBE (DBE-IB)

Components	Einecs-nr.	.CAS-nr.	Weight %	R-phrases	
	275-257-7	71195-64-7	55 - 70 🌢	n.a.	
Diisobutyl succinate	213-113-7	925-06-4	20 - 30	n.a	
Diisobutyl adipate	205-450-3	141-04-8	10 - 20 4	n.a	
Carbondioxide	204-696-9	124-38-9	3	n.a.	

#### 3.

#### HAZARDS IDENTIFICATION

May cause skin and eye irritation in susceptible persons.

Specific hazards

: none known.

4

#### FIRST-AID MEASURES

General advice

Never give anything by mouth to an unconscious person.

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Consult

a physician after significant exposure.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and

consult a physician,

Skin contact

Wash off immediately with plenty of water. Take off all

contaminated clothing immediately.

Ingestion

Do not induce vomiting without medical advice. Immediately give

plenty of water (if possible charcoal slurry or other liquid (except

alcohol). Consult a physician.

5.

#### FIRE-FIGHTING MEASURES

Extinguishing media

Fire fighting protective equipment

CO<sub>2</sub>, chemical foam, dry powder (BCF) or water spray.

Suitable respiratory protection with positive air supply. Full

protective clothing should also be worn.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our knowledge. The data on this sheet relates only to the specific materials designated herein. Sealed Air assumes no legal responsibility for use or reliance upon these data.

🔛 Sealed Air

**Port Cleaner** Page 2 of 3 Rev. 006, March 2005

Lindenhoutseweg 45, 6545 AH Nijmegen, The Netherlands, Tel. +31 (0)24 3710111

6.

# SPILL OR LEAK PROCEDURES

Wear suitable protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent contamination of sewers, drains and surface water. Absorb spillage onto sand, earth or any suitable oil absorbent material. Transfer to a container for disposal. Wash the spillage area clean with water. Disposal of this preparation should be in accordance with local, state or national legislation. Incinerate under approved controlled conditions.

#### 7.

#### HANDLING AND STORAGE DATA

Handling

Use only in area provided with appropriate ventilation. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Aerosol: do not breathe vapours or spray mist. Do not spray on a naked flame or any other incandescent material.

Storage

Keep tightly closed in a dry, cool and well-ventilated place.

Specific use information

For additional information please refer to the recommendations for the safe use and handling of Instapak® products. Available from

the supplier.

#### 8.

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering measures** 

Ensure adequate ventilation, especially in confined areas.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory

equipment.

Eye protection

Goggles or safety glasses with side shields and/or face shield.

Hand protection

Chemical resistant butyl rubber, nitrile rubber or PVC gloves.

Hygiene measures

Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

Eyewash station should be available. See the recommendations

for the safe use and handling of Instapak® products before

operating equipment.

# 9.

Other

## PHYSICAL AND CHEMICAL PROPERTIES

Form Colour Odour

: Liquid : Colourless : Sweet

**Boiling point** Vapour pressure Solubility in water Flash Point

275°C <0,13 hPA at 20°C <0.1 g/l at 25°C >100°C (Tcc)

Melting point Autoignition temperature : >370°C

: <-55°C

not explosive **Explosive properties** 

Decomposition temperature:

350°C

### 10.

#### STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to avoid

Heat and open flames.

Incompatible materials

Strong acids, strong alkalis and bases.

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**Sealed Air** 

**Port Cleaner** Page 3 of 3 Rev. 006, March 2005

Lindenhoutseweg 45, 6545 AH Nijmegen, The Netherlands, Tel. +31 (0)24 3710111

Hazardous decomposition products : Under fire conditions: carbon monoxide.

TOXICOLOGICAL INFORMATION 11.

LD50/oral/rat

16426 mg/kg. 31.9 mg/L.

LC50/inhalation/4h/rat Sensitization

Did not cause sensitization on laboratory animals.

Chronic toxicity

Did not show mutagenic or teratogenic effects in animal

experiments.

**ECOLOGICAL INFORMATION** 12.

: No data available. **Ecotoxical tests** 

**WASTE DISPOSAL** 13.

Liquid waste: Can be incinerated in accordance with local, state or national legislation.

Empty containers:

If recycling is not practicable, dispose of in compliance with local regulations.

TRANSPORT INFORMATION 14.

**UN-Number** ADR/RID

1950 (aerosol). Class 2, number 5F.

Proper shipping name

Aerosols.

**REGULATORY INFORMATION** 15.

Not classified as a hazardous preparation, according to Directive 67/548 and 1999/45.

**OTHER INFORMATION** 16.

: See the recommendations for the safe use and handling of Training

Instapak® products before operating equipment.

This data sheet was prepared in accordance with Directive 2001/58.

Date of issue revision 006 Supersedes revision 005

March 2005 July 2002



Port Cleaner Page 1 of 3 Rev. 006, March 2005

Lindenhoutseweg 45, 6545 AH Nijmegen, The Netherlands, Tel. +31 (0)24 3710111

IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Trade name

1.

: Instapak® Port Cleaner

Use of preparation

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Company

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England, Telephone: 01536 315700, Fax: 01536 410576

Emergency tel. no.

: 01536 315734

2.

3.

#### **COMPOSITION/INFORMATION ON INGREDIENTS**

Composition

Diisobutyl DBE (DBE-IB)

Components	Einecs-nr.	CAS-nr.	Weight %	R-phrases	
Diisobutyl glutarate	275-257-7	71195-64-7	55 - 70 🛊	n.a.	
Diisobutyl, succinate	213-113-7	925-06-4	· 20 = 30)	n.a.	
Diisobutyl adipate	205-450-3	141-04-8	10 - 20 #	n.a.	
Carbondioxide	204-696-9	124-38-9	3	n.a.	

HAZARDS IDENTIFICATION


May cause skin and eye irritation in susceptible persons.

Specific hazards

none known.

•	FIRST-AID MEASURES
4.	FIRST-AID WEASURES

General advice

Never give anything by mouth to an unconscious person.

Inhalation

: Move to fresh air. Oxygen or artificial respiration if needed. Consult

a physician after significant exposure.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and

consult a physician,

Skin contact

Wash off immediately with plenty of water. Take off all

Ingestion

contaminated clothing immediately.

Do not induce vomiting without medical advice. Immediately give plenty of water (if possible charcoal slurry or other liquid (except

alcohol). Consult a physician.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media

CO<sub>2</sub>, chemical foam, dry powder (BCF) or water spray.

Fire fighting protective equipment

Suitable respiratory protection with positive air supply. Full

protective clothing should also be worn.

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Lindenhoutseweg 45, 6545 AH Nijmegen, The Netherlands, Tel. +31 (0)24 3710111

6.

Storage

#### SPILL OR LEAK PROCEDURES

Wear suitable protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent contamination of sewers, drains and surface water. Absorb spillage onto sand, earth or any suitable oil absorbent material. Transfer to a container for disposal. Wash the spillage area clean with water. Disposal of this preparation should be in accordance with local, state or national legislation. Incinerate under approved controlled conditions.

#### HANDLING AND STORAGE DATA 7.

Use only in area provided with appropriate ventilation. Avoid Handling

contact with skin and eyes. Keep away from heat and sources of ignition. Aerosol: do not breathe vapours or spray mist. Do not spray on a naked flame or any other incandescent material.

Keep tightly closed in a dry, cool and well-ventilated place.

For additional information please refer to the recommendations for Specific use information

the safe use and handling of Instapak® products. Available from

the supplier.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

Ensure adequate ventilation, especially in confined areas. **Engineering measures** 

In case of insufficient ventilation wear suitable respiratory Respiratory protection

equipment.

Goggles or safety glasses with side shields and/or face shield. Eye protection

Chemical resistant butyl rubber, nitrile rubber or PVC gloves. Hand protection

Remove and wash contaminated clothing before re-use. Wash Hygiene measures

hands before breaks and immediately after handling the product.

Evewash station should be available. See the recommendations Other

for the safe use and handling of Instapak® products before

operating equipment.

#### PHYSICAL AND CHEMICAL PROPERTIES 9.

275°C Boiling point Form : Liquid

Vapour pressure <0,13 hPA at 20°C Colour : Colourless Solubility in water <0.1 g/l at 25°C Odour : Sweet Flash Point >100°C (Tcc) : <-55°C Melting point

not explosive Explosive properties Autoignition temperature: >370°C

350°C Decomposition temperature:

#### STABILITY AND REACTIVITY 10.

Stable under normal conditions. Stability

Conditions to avoid Heat and open flames.

Strong acids, strong alkalis and bases. Incompatible materials

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Port Cleaner Page 3 of 3 Rev. 006, March 2005

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Hazardous decomposition products

Under fire conditions: carbon monoxide.

11.

#### TOXICOLOGICAL INFORMATION

LD50/oral/rat

16426 mg/kg.

LC50/inhalation/4h/rat

31.9 mg/L.

Sensitization Chronic toxicity Did not cause sensitization on laboratory animals.

Did not show mutagenic or teratogenic effects in animal

experiments.

12.

#### **ECOLOGICAL INFORMATION**

**Ecotoxical tests** 

No data available.

13.

#### WASTE DISPOSAL

Liquid waste:

Can be incinerated in accordance with local, state or national legislation.

**Empty containers:** 

If recycling is not practicable, dispose of in compliance with local regulations.

14.

#### TRANSPORT INFORMATION

**UN-Number** 

: 1950 (aerosol).

ADR/RID

Class 2, number 5F.

Proper shipping name

Aerosols.

15.

# REGULATORY INFORMATION

Not classified as a hazardous preparation, according to Directive 67/548 and 1999/45.

16.

#### OTHER INFORMATION

**Training** 

See the recommendations for the safe use and handling of

Instapak® products before operating equipment.

This data sheet was prepared in accordance with Directive 2001/58.

Date of issue revision 006

March 2005

Supersedes revision 005

July 2002